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Summary: A solid-state inertial measurement unit (IMU) referred to as the MotionPakTM is described. The IMU developed by BEI Sensors & Systems Company, consists of three micromachined quartz rate sensors and three

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Solid-state six degree of freedom, motion sensor for field roboticapplications

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accelerometers to provide a six degree of freedom (DOF), miniature, high reliability, low cost motion sensor

which Carnegie Mellon University is utilizing to adapt to field robotic applications. Theory of operation and

applications of the IMU are presented together with preliminary results in fusing the IMU data with a compass for

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